

142958

ANALYTICAL REPORT

JOB NUMBER: 200378

Prepared For:

RMT
222 S. Riverside Plaza
Suite 820
Chicago, IL 60606

Attention: Rae Mindock

Date: 09/15/2000

FILE

Project name R.M.

Project number 496201

Category Tech


Signature

Name: Eric A. Lang

Title: Project Manager


Date

Severn Trent Laboratories
2417 Bond Street
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Severn Trent Laboratories Chicago
GC/MS VOA Case Narrative

RMT
Riverdale Chemical
Project #: 20000334
Job #: 200378

- 1) Unless noted below, the samples in this job were analyzed within the hold time specified in the applicable methods.
- 2) All Method Blank target compounds were below reporting limits.
- 3) The Laboratory Control Sample (LCS) were within recovery limits for the control compounds. The spike recovery was above the QC limits for 2-Butanone in the LCS sample. Since the spike recovery was above the QC limits and 2-Butanone was not detected in any of the samples, corrective action was not required.
- 4) A Matrix Spike analysis was performed on the sample 200378-1. The spike recovery was above the QC limits for 2-Butanone in the sample 200378-1 MS, but corrective action was not required.
- 5) All of the volatile samples had surrogate recoveries within the in-house generated QC limits.
- 6) The samples were within the calibration criteria of the method and the applicable laboratory SOP. The low point in the initial calibration verifies the base reporting limits.
- 7) All internal standard areas and retention times were within acceptance limits as compared to the corresponding continuing calibration standard.
- 8) The samples were analyzed using a 5-mL purge volume. The TCLP samples and the TCLP Extraction Blank were analyzed at 1/20 dilutions. The Method Blank and the LCS samples were analyzed without dilution.


Gregory L. Goodwin
GC/MS Section Manager

09/13/2000

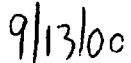
Severn Trent Laboratories - Chicago
GC/MS BNA Case Narrative

Riverdale Chemical
STL# 200378
BNA DATA: TCLP

1. The TCLP extraction, organic extraction, and all analyses were performed within recommended hold times.
2. The Method Blank and the TCLP Blank had all analytes below the reporting limits.
3. The LCS (Method Blank Spike) sample was LCS (Prep 3208). A full list BNA spike solution was used (100 µg/mL), and 1.0 mL was spiked in the LCS sample. In-house statistical recovery limits were used and the compounds specified in the method were used for QC evaluation. All of the compounds specified in the method were below the QC limit in the LCS (Prep 3208). No corrective action was taken per project manager's request.
4. The Matrix Spike sample was 200378-3. A full list BNA spike solution was used (100 µg/mL), and 1.0 mL was spiked in the Matrix Spike sample. In-house statistical recovery limits were used and the compounds specified in the method were used for QC evaluation. All spike recoveries for the specified compounds were within QC limits.
5. The sample LCS (Prep 3208) had five surrogate recoveries below the QC limits. No corrective action was required for a LCS sample with low surrogate recoveries. All of the other samples in this analytical batch had surrogates within in-house generated QC limits.
6. All analyses were performed following USEPA SW846 method 8270C protocol. All of the internal standard and surrogate peaks have been labeled by name. All of the samples had internal standard areas and retention times within acceptance limits as compared to the corresponding continuing calibration standard.
7. The samples and the TCLP Blank were extracted using 100 mL of the TCLP leachate. The Method Blank and the LCS sample were extracted using 1000 mL of deionized water. All of the samples were analyzed without dilution. The results and reporting limits were adjusted to account for the extraction volume.



Gary Rynkar
GC/MS BNA Unit Leader



Date

STL Chicago
Pesticide Case Narrative

RMT
Riverdale Chemical
Job #: 200378-1, 2 and 3
TCLP Pesticides

1. STL Chicago used the following Gas Chromatographic systems for the analysis of these pesticides:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
05	Varian 3400	ZB-5	Electron Capture
06	Varian 3400	Rtx-35	Electron Capture

2. These TCLP extracts were extracted based on SW846 method 3510. The extracts were analyzed for TCLP pesticides based on SW846 method 8081A.
3. All required holding times were met for the extraction and analysis.
4. The method blanks were below the reporting limits for all target compounds.
5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits.
6. All blank spike recoveries were within statistical control limits.
7. A matrix spike was performed on sample 200378-1 (DSL 3). The recovery for gamma-BHC (140%) and Heptachlor epoxide (150%) were above statistical limits established for a water matrix.
8. All initial and continuing standard calibrations associated with these samples were in control.
9. All positive hits were confirmed using a second column.

Linda S. Mackley
Linda S. Mackley
Organics Section Manager

9-14-00
Date

STL Chicago
Herbicide Case Narrative

RMT
Riverdale Chemical
Job #: 200378-1, 2 and 3
TCLP Herbicides

1. STL Chicago uses the following Gas Chromatographic system for the analysis of herbicides:

<u>ID#</u>	<u>INSTRUMENT</u>	<u>COLUMN TYPE</u>	<u>DETECTOR</u>
32	Varian 3400	Rtx-35	Electron Capture
31	Varian 3400	Rtx-5	Electron Capture

2. These TCLP samples were extracted for TCLP Herbicides (2,4-D and 2,4,5-TP) based on SW846 method 8150B. The extracts were analyzed based on SW846 method 8151.
3. All required holding times were met for the extraction and analysis.
4. The method blanks were below the reporting limits for all target compounds.
5. The surrogate used for this analysis was DCAA. All surrogate recoveries were within statistical control limits.
6. The blank spike recoveries were within statistical control limits.
7. A matrix spike was performed on sample 200378-2 (DSL 4). The recoveries for 2,4-D and 2,4,5-TP were 39.9% and 55.9%, respectively. The recovery for 2,4-D was below the laboratory's statistical control limits that were established for water samples, and are used only as advisory limits for TCLPs.
8. All initial and continuing standard calibrations associated with these samples were in control for all target compounds.

Linda S. Mackley
Linda S. Mackley
Organics Section Manager

9-18-00
Date

S A M P L E I N F O R M A T I O N

Date: 09/15/2000

Job Number.: 200378

Customer...: RMT

Attn.....: Rae Mindock

Project Number.....: 20000334

Customer Project ID....: RIVERDALE CHEMICAL

Project Description....: Riverdale Chemical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
200378-1	DSL 3	Soil	09/06/2000	10:30	09/08/2000	09:45
200378-2	DSL 4	Soil	09/06/2000	10:30	09/08/2000	09:45
200378-3	DSL 5	Soil	09/08/2000	13:30	09/08/2000	09:45

LABORATORY TEST RESULTS

Job Number: 200378

Date: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Customer Sample ID: DSL 3
 Date Sampled.....: 09/06/2000
 Time Sampled.....: 10:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 200378-1
 Date Received.....: 09/08/2000
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
3010A	Acid Dig. Leachates (ICAP) Acid Digestion (ICP), TCLP	Complete		Text	09/11/00	clb
% Solids	% Solids Determination % Solids % Moisture	81.7 18.3	0.1 0.1	% %	09/12/00 09/12/00	lmr lmr
1311	TCLP Extraction TCLP Extraction, TCLP	Complete			09/11/00	lmr
1311	TCLP Zero Headspace Extraction TCLP Zero Head Space (ZHE) Extraction, TCLP	Complete			09/11/00	lmr
8151A	Herbicides 2,4-D, TCLP 2,4,5-TP (Silvex), TCLP	ND ND	100 10	ug/L ug/L	09/14/00 09/14/00	lsm lsm
8081A	Organochlorine Pesticide Analysis gamma-BHC (Lindane), TCLP Heptachlor, TCLP Heptachlor epoxide, TCLP Endrin, TCLP Methoxychlor, TCLP Toxaphene, TCLP Chlordane, TCLP	ND ND ND ND ND ND ND	2.5 2.5 2.5 5.0 25 50 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	09/13/00 09/13/00 09/13/00 09/13/00 09/13/00 09/13/00 09/13/00	lsm lsm lsm lsm lsm lsm lsm
9038M	Sulfate, Turbimetric Sulfate*	<1370	1370	mg/Kg	09/14/00	jem
7.3.3.2/9014	Reactivity, Cyanide Reactivity, Cyanide*	<3.0	3.0	mg/Kg	09/11/00	nvc
7.3.4.2/9034	Reactivity, Sulfide Reactivity, Sulfide*	<306	306	mg/Kg	09/13/00	jem
9045C	pH (Soil) pH Temperature at Analysis	7.64 19.4	0.20 1.0	pH Units * degrees	09/12/00 09/12/00	alh alh
1010	Ignitability (Pensky-Martens Closed-Cup) Ignitability (Flashpoint)	>200		degrees F	09/11/00	nvc
9095A	Paint Filter Test Paint Filter Test	0		mL/100g	09/11/00	nvc
9066	Phenolics, Total Recoverable Phenolics, Total Recoverable*	2.48	0.61	mg/Kg	09/13/00	kd
7470A	Leachable, Mercury (CVAA) Mercury (Hg), TCLP	<2.0	2.0	mg/L	09/13/00	gak

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 200378

Date: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Customer Sample ID: DSL 3
Date Sampled.....: 09/06/2000
Time Sampled.....: 10:30
Sample Matrix....: Soil

Laboratory Sample ID: 200378-1
Date Received.....: 09/08/2000
Time Received.....: 09:45

* In Description = Dry Wgt.

LABORATORY TEST RESULTS							
Job Number: 200378		Date: 09/18/2000					
CUSTOMER: RMT		PROJECT: RIVERDALE CHEMICAL			ATTN: Rae Mindock		
Customer Sample ID: DSL 4 Date Sampled.....: 09/06/2000 Time Sampled.....: 10:30 Sample Matrix.....: Soil				Laboratory Sample ID: 200378-2 Date Received.....: 09/08/2000 Time Received.....: 09:45			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH	
3010A	Acid Dig. Leachates (ICAP) Acid Digestion (ICP), TCLP	Complete		Text	09/11/00	clb	
% Solids	% Solids Determination % Solids % Moisture	84.3 15.7	0.1 0.1	% %	09/12/00 09/12/00	lmr lmr	
1311	TCLP Extraction TCLP Extraction, TCLP	Complete			09/11/00	lmr	
1311	TCLP Zero Headspace Extraction TCLP Zero Head Space (ZHE) Extraction, TCLP	Complete			09/11/00	lmr	
8151A	Herbicides 2,4-D, TCLP 2,4,5-TP (Silvex), TCLP	ND ND	100 10	ug/L ug/L	09/14/00 09/14/00	lsm lsm	
8081A	Organochlorine Pesticide Analysis gamma-BHC (Lindane), TCLP Heptachlor, TCLP Heptachlor epoxide, TCLP Endrin, TCLP Methoxychlor, TCLP Toxaphene, TCLP Chlordane, TCLP	ND ND ND ND ND ND ND	2.5 2.5 2.5 5.0 25 50 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	09/13/00 09/13/00 09/13/00 09/13/00 09/13/00 09/13/00 09/13/00	lsm lsm lsm lsm lsm lsm lsm	
9038M	Sulfate, Turbimetric Sulfate*	<3180	3180	mg/Kg	09/14/00	jem	
7.3.3.2/9014	Reactivity, Cyanide Reactivity, Cyanide*	<2.9	2.9	mg/Kg	09/11/00	nvc	
7.3.4.2/9034	Reactivity, Sulfide Reactivity, Sulfide*	<297	297	mg/Kg	09/13/00	jem	
9045C	pH (Soil) pH Temperature at Analysis	7.62 19.8	0.20 1.0	pH Units * degrees	09/12/00 09/12/00	alh alh	
1010	Ignitability (Pensky-Martens Closed-Cup) Ignitability (Flashpoint)	>200		degrees F	09/11/00	nvc	
9095A	Paint Filter Test Paint Filter Test	0		mL/100g	09/11/00	nvc	
9066	Phenolics, Total Recoverable Phenolics, Total Recoverable*	4.70	0.59	mg/Kg	09/13/00	kd	
7470A	Leachable, Mercury (CVAA) Mercury (Hg), TCLP	<2.0	2.0	mg/L	09/13/00	gok	

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 200378

Date: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Customer Sample ID: DSL 4
Date Sampled.....: 09/06/2000
Time Sampled.....: 10:30
Sample Matrix....: Soil

Laboratory Sample ID: 200378-2
Date Received.....: 09/08/2000
Time Received.....: 09:45

* In Description = Dry Wat.

LABORATORY TEST RESULTS

Job Number: 200378

Date: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Customer Sample ID: DSL 5
 Date Sampled.....: 09/08/2000
 Time Sampled.....: 13:30
 Sample Matrix....: Soil

Laboratory Sample ID: 200378-3
 Date Received.....: 09/08/2000
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
3010A	Acid Dig. Leachates (ICAP) Acid Digestion (ICP), TCLP	Complete		Text	09/11/00	clb
% Solids	% Solids Determination % Solids % Moisture	86.4 13.6	0.1 0.1	% %	09/12/00 09/12/00	lmr lmr
1311	TCLP Extraction TCLP Extraction, TCLP	Complete			09/11/00	lmr
1311	TCLP Zero Headspace Extraction TCLP Zero Head Space (ZHE) Extraction, TCLP	Complete			09/11/00	lmr
8151A	Herbicides 2,4-D, TCLP 2,4,5-TP (Silvex), TCLP	ND 37	100 10	ug/L ug/L	09/14/00 09/14/00	lsm lsm
8081A	Organochlorine Pesticide Analysis gamma-BHC (Lindane), TCLP Heptachlor, TCLP Heptachlor epoxide, TCLP Endrin, TCLP Methoxychlor, TCLP Toxaphene, TCLP Chlordane, TCLP	4.1 ND ND ND ND ND ND	2.5 2.5 2.5 5.0 25 50 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	09/13/00 09/13/00 09/13/00 09/13/00 09/13/00 09/13/00 09/13/00	lsm lsm lsm lsm lsm lsm lsm
9038M	Sulfate, Turbimetric Sulfate*	<735	735	mg/Kg	09/14/00	jem
7.3.3.2/9014	Reactivity, Cyanide Reactivity, Cyanide*	<2.8	2.8	mg/Kg	09/11/00	nvc
7.3.4.2/9034	Reactivity, Sulfide Reactivity, Sulfide*	<289	289	mg/Kg	09/13/00	jem
9045C	pH (Soil) pH Temperature at Analysis	8.43 20.9	0.20 1.0	pH Units * degrees	09/12/00 09/12/00	alh alh
1010	Ignitability (Pensky-Martens Closed-Cup) Ignitability (Flashpoint)	>200		degrees F	09/11/00	nvc
9095A	Paint Filter Test Paint Filter Test	0		mL/100g	09/11/00	nvc
9066	Phenolics, Total Recoverable Phenolics, Total Recoverable*	8.60	0.58	mg/Kg	09/13/00	kd
7470A	Leachable, Mercury (CVAA) Mercury (Hg), TCLP	<2.0	2.0	mg/L	09/13/00	gok

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 200378

Date: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Customer Sample ID: DSL 5
Date Sampled.....: 09/08/2000
Time Sampled.....: 13:30
Sample Matrix....: Soil

Laboratory Sample ID: 200378-3
Date Received.....: 09/08/2000
Time Received.....: 09:45

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8151A Method Description.: Herbicides	Units.....: ug/L Batch.....: 3314	Analyst...: lsm
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MB	Method Blank		3211	10	09/14/2000	0339
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2,4-D	0	U							
2,4,5-TP (Silvex)	0	U							

LCS	Laboratory Control Sample	000GPLHERA	3211	10	09/14/2000	0411
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2,4-D	0.2204	U		0.500000		44.1		48.0-131.0	
2,4,5-TP (Silvex)	0.0560			0.100000		56.0		53.0-133.0	

EB1	Extraction Blank 1		3211	10	09/14/2000	0443
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2,4-D	0	U							
2,4,5-TP (Silvex)	0	U							

MS	Matrix Spike	000GPLHERA	200378-2	10	09/14/2000	0619
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
2,4-D	0.1997			0.500000	0	39.9		48-131	*
2,4,5-TP (Silvex)	0.0559			0.100000	0	55.9		53-133	

Test Method.....: 8081A Method Description.: Organochlorine Pesticide Analysis	Units.....: ug/L Batch.....: 3287	Analyst...: lsm
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MB	Method Blank		3201		09/13/2000	1806
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
gamma-BHC (Lindane)	0	U							
Heptachlor	0	U							
Heptachlor epoxide	0	U							
Endrin	0	U							
Methoxychlor	0	U							
Toxaphene	0	U							
Chlordane	0	U							

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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LCS	Laboratory Control Sample	000HWLPTFA	3201		09/13/2000	1840
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
gamma-BHC (Lindane)	0.010			0.010000		100.0		56.0-125.0	
Heptachlor	0.008			0.010000		80.0		50.0-129.0	
Heptachlor epoxide	0.009			0.010000		90.0		59.0-126.0	
Endrin	0.010			0.010000		100.0		30.0-154.0	
Methoxychlor	0.109			0.100000		109.0		38.0-149.0	
Chlordane	0.008			0.010020		79.8		68.0-118.0	

LCS	Laboratory Control Sample	000HWLPTTA	3201		09/13/2000	1913
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toxaphene	0.992			1.002000		99.0		65.0-138.0	

EB1	Extraction Blank 1		3201		09/13/2000	1946
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
gamma-BHC (Lindane)	0	U							
Heptachlor	0	U							
Heptachlor epoxide	0	U							
Endrin	0	U							
Methoxychlor	0	U							
Toxaphene	0	U							
Chlordane	0	U							

MS	Matrix Spike	000HWLPTFA	200378-1		09/13/2000	2053
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
gamma-BHC (Lindane)	0.014			0.010000	0.003	140.0		56-125	*
Heptachlor	0.011			0.010000	0.003	110.0		50-129	
Heptachlor epoxide	0.015			0.010000	0	150.0		59-126	*
Endrin	0.011			0.010000	0	110.0		30-154	
Methoxychlor	0.114			0.100000	0	114.0		38-149	
Chlordane	0.011			0.010020	0	109.8		68-118	

MS	Matrix Spike	000HWLPTTA	200378-1		09/13/2000	2127
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toxaphene	0.976			1.002000	0	97.4		65-138	

QUALITY CONTROL RESULTS						
Job Number.: 200378			Report Date.: 09/18/2000			
CUSTOMER: RMT		PROJECT: Riverdale Chemical			ATTN: Rae Mindock	
QC Type	Description		Reag. Code	Lab ID	Dilution Factor	Date Time
Test Method.....: 7470A Method Description.: Leachable, Mercury (CVAA)			Units.....: ug/L Batch.....: 3231		Analyst...: gok	
ICV	Initial Calibration Verification		M99DSK1342			09/13/2000 1352
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		1.95833		2.000000	97.9	90-110
ICB	Initial Calibration Blank					09/13/2000 1355
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		-0.0134 U				
CRA	Contract Required Detection Limit		M99JSK1424			09/13/2000 1357
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		0.18790 U		0.200000	94.0	50-150
MB	Method Blank			3224		09/13/2000 1359
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		-0.0040 U				
LCS	Laboratory Control Sample		M99DSK1342	3224		09/13/2000 1401
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		2.0075		2.000000	100.4	80-120
CCV	Continuing Calibration Verification		M99DSK1342			09/13/2000 1415
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		0.97509		1.000000	97.5	90-110
CCB	Continuing Calibration Blank					09/13/2000 1417
Parameter/Test Description		QC Result Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Mercury (Hg)		-0.0022 U				

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCV	Continuing Calibration Verification	M99DSK1342			09/13/2000	1442				
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		0.99792			1.000000		99.8		90-110	

CCB	Continuing Calibration Blank				09/13/2000	1444				
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		-0.0185	U							

E81	Extraction Blank 1			3224			09/13/2000	1446		
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		-0.0006								

MD	Method Duplicate			200378-1			09/13/2000	1451		
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		-0.0160				-0.0215	0.0055		2.0000	

MS	Matrix Spike			200378-1			09/13/2000	1453		
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		0.81			1.000000	-0.0215	81.0		75-125	

CCV	Continuing Calibration Verification				09/13/2000	1500				
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		0.98650			1.000000		98.7		90-110	

CCB	Continuing Calibration Blank				09/13/2000	1502				
Parameter/Test Description		QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Mercury (Hg)		-0.0018	U							

QUALITY CONTROL RESULTS							
Job Number.: 200378		Report Date.: 09/18/2000					
CUSTOMER: RMT		PROJECT: Riverdale Chemical			ATTN: Rae Mindock		
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time	
Test Method.....: 6010B		Units.....: mg/L			Analyst...: lmr		
Method Description.: Leachable, Metals Analysis (ICAP)		Batch.....: 3153					
ICV	Initial Calibration Verification	MO0FICV002			09/12/2000 0923		
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	4.00728			4.00		100.2	90-110
Barium (Ba)	8.06228			8.000		100.8	90-110
Cadmium (Cd)	2.01389			2.00		100.7	90-110
Chromium (Cr)	3.97757			4.00		99.4	90-110
Lead (Pb)	3.96799			4.00		99.2	90-110
Selenium (Se)	4.05785			4.00		101.4	90-110
Silver (Ag)	0.79055			0.800		98.8	90-110
ICB	Initial Calibration Blank	09/12/2000 0927					
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	0.01697	U					
Barium (Ba)	0.00274	U					
Cadmium (Cd)	0.00332	U					
Chromium (Cr)	0.00183	U					
Lead (Pb)	-0.00039	U					
Selenium (Se)	0.01419	U					
Silver (Ag)	-0.00175	U					
CRI	Contract Required Detection Limits	MO0HCR1004			09/12/2000 0930		
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	0.21073			0.20		105.4	50-150
Barium (Ba)	0.40812	U		0.40		102.0	50-150
Cadmium (Cd)	0.01191	U		0.01		119.1	50-150
Chromium (Cr)	0.02157	U		0.02		107.8	50-150
Lead (Pb)	0.11299			0.10		113.0	50-150
Selenium (Se)	0.18727			0.20		93.6	50-150
Silver (Ag)	0.02035	U		0.02		101.8	50-150
ISB	Interference Check Sample B	MO0HISB003			09/12/2000 0936		
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	5.25399			5.000		105.1	80-120
Barium (Ba)	0.50328	U		0.50		100.7	80-120
Cadmium (Cd)	0.99897			1.00		99.9	80-120
Chromium (Cr)	0.48325			0.50		96.7	80-120
Lead (Pb)	4.76799			5.000		95.4	80-120
Selenium (Se)	5.20217			5		104.0	80-120
Silver (Ag)	0.19021			0.20		95.1	80-120

QUALITY CONTROL RESULTS							
Job Number.: 200378				Report Date.: 09/18/2000			
CUSTOMER: RMT		PROJECT: Riverdale Chemical			ATTN: Rae Mindock		
QC Type	Description		Reag. Code	Lab ID	Dilution Factor	Date	Time
CCV	Continuing Calibration Verification		M00HCCV005			09/12/2000	0939
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	5.07558			5.00		101.5	90-110
Barium (Ba)	10.03263			10.00		100.3	90-110
Cadmium (Cd)	2.52137			2.50		100.9	90-110
Chromium (Cr)	4.96815			5.00		99.4	90-110
Lead (Pb)	4.94896			5.00		99.0	90-110
Selenium (Se)	5.16532			5.00		103.3	90-110
Silver (Ag)	0.98732			1.00		98.7	90-110
CCB	Continuing Calibration Blank					09/12/2000	0942
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	0.01007	U					
Barium (Ba)	0.00178	U					
Cadmium (Cd)	0.00385	U					
Chromium (Cr)	0.00093	U					
Lead (Pb)	0.03499	U					
Selenium (Se)	0.03537	U					
Silver (Ag)	0.00049	U					
EB1	Extraction Blank 1			3127			09/12/2000 0945
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	-0.00108	U					
Barium (Ba)	0.13958	U					
Cadmium (Cd)	0.00163	U					
Chromium (Cr)	0.00092	U					
Lead (Pb)	-0.00051	U					
Selenium (Se)	-0.01439	U					
Silver (Ag)	-0.00377	U					
LCS	Laboratory Control Sample		M00ESPK003	3127			09/12/2000 0949
Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits F
Arsenic (As)	1.87116			2.000000		93.6	80-120
Barium (Ba)	1.87251			2.000000		93.6	80-120
Cadmium (Cd)	0.05107			0.050000		102.1	80-120
Chromium (Cr)	0.19144			0.200000		95.7	80-120
Lead (Pb)	0.43215			0.500000		86.4	80-120
Selenium (Se)	1.89996			2.000000		95.0	80-120
Silver (Ag)	0.04501			0.050000		90.0	80-120

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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MD	Method Duplicate		200378-1		09/12/2000	0955
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Arsenic (As)	0.00319				0.01608	0.0129 0.1000
Barium (Ba)	0.71689				0.71916	0.0023 1.0000
Cadmium (Cd)	0.00526				0.00366	0.0016 0.0500
Chromium (Cr)	0.00178				0.00197	0.0002 0.0500
Lead (Pb)	0.03988				0.02300	0.0169 0.0500
Selenium (Se)	0.02609				0.01037	0.0157 0.1000
Silver (Ag)	-0.00264				-0.00236	0.0003 0.0500

MS	Matrix Spike	M00HSPK004	200378-1		09/12/2000	0958
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Arsenic (As)	4.72222			5.00	0.01608	94.4 75-125
Barium (Ba)	95.31922			100.00	0.71916	95.3 75-125
Cadmium (Cd)	0.92668			1.00	0.00366	92.7 75-125
Chromium (Cr)	4.54303			5.00	0.00197	90.9 75-125
Lead (Pb)	4.50843			5.00	0.02300	90.2 75-125
Selenium (Se)	1.00088			1.00	0.01037	100.1 75-125
Silver (Ag)	0.92107			1.00	-0.00236	92.1 75-125

SD	Serial Dilution		200378-1		09/12/2000	1001
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Arsenic (As)	-0.01839				0.01608	
Barium (Ba)	0.15237				0.71916	
Cadmium (Cd)	0.00430				0.00366	
Chromium (Cr)	-0.00149				0.00197	
Lead (Pb)	0.02208				0.02300	
Selenium (Se)	0.01532				0.01037	
Silver (Ag)	-0.00194				-0.00236	

CCV	Continuing Calibration Verification	M00HCCV005			09/12/2000	1018
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result * Limits F
Arsenic (As)	5.07181			5.00		101.4 90-110
Barium (Ba)	9.97075			10.00		99.7 90-110
Cadmium (Cd)	2.48128			2.50		99.3 90-110
Chromium (Cr)	4.95749			5.00		99.1 90-110
Lead (Pb)	4.95222			5.00		99.0 90-110
Selenium (Se)	5.20030			5.00		104.0 90-110
Silver (Ag)	0.97571			1.00		97.6 90-110

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
CCB	Continuing Calibration Blank				09/12/2000	1022

Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.02406	U							
Barium (Ba)	0.00330	U							
Cadmium (Cd)	0.00316	U							
Chromium (Cr)	0.00368	U							
Lead (Pb)	0.01968	U							
Selenium (Se)	0.03473	U							
Silver (Ag)	-0.00006	U							

CRI	Contract Required Detection Limits	MOOHCR1004			09/12/2000	1025

Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	0.21938			0.20		109.7		50-150	
Barium (Ba)	0.40141	U		0.40		100.4		50-150	
Cadmium (Cd)	0.01323	U		0.01		132.3		50-150	
Chromium (Cr)	0.02217	U		0.02		110.8		50-150	
Lead (Pb)	0.11923			0.10		119.2		50-150	
Selenium (Se)	0.22244			0.20		111.2		50-150	
Silver (Ag)	0.01937	U		0.02		96.8		50-150	

ISB	Interference Check Sample B	MOOHSB003			09/12/2000	1025

Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	5.27528			5.000		105.5		80-120	
Barium (Ba)	0.49888	U		0.50		99.8		80-120	
Cadmium (Cd)	0.98708			1.00		98.7		80-120	
Chromium (Cr)	0.47900			0.50		95.8		80-120	
Lead (Pb)	4.76995			5.000		95.4		80-120	
Selenium (Se)	5.30072			5		106.0		80-120	
Silver (Ag)	0.19112			0.20		95.6		80-120	

CCV	Continuing Calibration Verification	MOOHCCV005			09/12/2000	1034

Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	5.05435			5.00		101.1		90-110	
Barium (Ba)	9.94385			10.00		99.4		90-110	
Cadmium (Cd)	2.48616			2.50		99.4		90-110	
Chromium (Cr)	4.94347			5.00		98.9		90-110	
Lead (Pb)	4.98638			5.00		99.7		90-110	
Selenium (Se)	5.21669			5.00		104.3		90-110	
Silver (Ag)	0.97702			1.00		97.7		90-110	

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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CCB	Continuing Calibration Blank				09/12/2000	1037
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Arsenic (As)	-0.00248	U							
Barium (Ba)	0.00290	U							
Cadmium (Cd)	0.00331	U							
Chromium (Cr)	0.00501	U							
Lead (Pb)	0.02420	U							
Selenium (Se)	0.01466	U							
Silver (Ag)	0.00233	U							

Test Method.....: 8270C	Units.....: ug/L	Analyst...: da
Method Description.: Semivolatile Organics	Batch.....: 3234	

MB	Method Blank				09/13/2000	0949
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Pyridine	0	U							
1,4-Dichlorobenzene	0	U							
2-Methylphenol (o-cresol)	0	U							
Hexachloroethane	0	U							
4-Methylphenol (m/p-cresol)	0	U							
Nitrobenzene	0	U							
Hexachlorobutadiene	0	U							
2,4,6-Trichlorophenol	0	U							
2,4,5-Trichlorophenol	0	U							
2,4-Dinitrotoluene	0	U							
Hexachlorobenzene	0	U							
Pentachlorophenol	0	U							

LCS	Laboratory Control Sample	000HWLBNAB			09/13/2000	1018
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Pyridine	17.9161			100		17.9		10.0-96.0	*
1,4-Dichlorobenzene	18.3047			100		18.3		34.0-99.0	*
2-Methylphenol (o-cresol)	23.6821			100		23.7		50.0-95.0	*
Hexachloroethane	13.2777			100		13.3		31.0-94.0	*
4-Methylphenol (m/p-cresol)	21.3930			100		21.4		49.0-96.0	*
Nitrobenzene	25.5379			100		25.5		56.0-105.0	*
Hexachlorobutadiene	19.9715			100		20.0		37.0-108.0	*
2,4,6-Trichlorophenol	26.7856			100		26.8		63.0-103.0	*
2,4,5-Trichlorophenol	28.7178			100		28.7		64.0-110.0	*
2,4-Dinitrotoluene	28.6293			100		28.6		64.0-118.0	*
Hexachlorobenzene	28.4658			100		28.5		66.0-109.0	*
Pentachlorophenol	23.2654			100		23.3		54.0-125.0	*

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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EB1	Extraction Blank 1				09/13/2000	1048
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Pyridine	0	U							
1,4-Dichlorobenzene	0	U							
2-Methylphenol (o-cresol)	0	U							
Hexachloroethane	0	U							
4-Methylphenol (m/p-cresol)	0	U							
Nitrobenzene	0	U							
Hexachlorobutadiene	0	U							
2,4,6-Trichlorophenol	0	U							
2,4,5-Trichlorophenol	0	U							
2,4-Dinitrotoluene	0	U							
Hexachlorobenzene	0	U							
Pentachlorophenol	0	U							

MS	Matrix Spike	000H WLBNAB	200378-3		09/13/2000	1245
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Pyridine	50.3285			100	0	50.3		10-96	
1,4-Dichlorobenzene	50.5420			100	0	50.5		34-99	
2-Methylphenol (o-cresol)	56.7945			100	0	56.8		50-95	
Hexachloroethane	42.9136			100	0	42.9		31-94	
4-Methylphenol (m/p-cresol)	49.2671			100	0	49.3		49-96	
Nitrobenzene	70.5371			100	0	70.5		56-105	
Hexachlorobutadiene	59.7673			100	0	59.8		37-108	
2,4,6-Trichlorophenol	86.0153			100	0	86.0		63-103	
2,4,5-Trichlorophenol	78.8207			100	0	78.8		64-110	
2,4-Dinitrotoluene	92.9502			100	0	93.0		64-118	
Hexachlorobenzene	81.6291			100	0	81.6		66-109	
Pentachlorophenol	78.9799			100	0	79.0		54-125	

Test Method.....: 8260B	Units.....: ug/L	Analyst...: jab
Method Description.: Volatile Organics (5mL Purge)	Batch.....: 3181	

MB	Method Blank		3180		09/11/2000	1933
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Vinyl chloride	0	U							
1,1-Dichloroethene	0	U							
2-Butanone (Methyl ethyl ketone)	0	U							
Chloroform	0	U							
Carbon tetrachloride	0	U							
Benzene	0	U							
1,2-Dichloroethane	0	U							
Trichloroethene	0	U							
Tetrachloroethene	0	U							
Chlorobenzene	0	U							

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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LCS	Laboratory Control Sample	V00I11DSA	3180		09/11/2000	2025
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Vinyl chloride	52.8659			50.00		105.7		51.0-138.0	
1,1-Dichloroethene	57.6845			50.00		115.4		53.0-136.0	
2-Butanone (Methyl ethyl ketone)	70.1249			50.00		140.2		38.0-132.0	*
Chloroform	59.6849			50.00		119.4		71.0-132.0	
Carbon tetrachloride	54.8263			50.00		109.7		69.0-133.0	
Benzene	50.1170			50.00		100.2		71.0-122.0	
1,2-Dichloroethane	56.7864			50.00		113.6		70.0-128.0	
Trichloroethene	50.0022			50.00		100.0		78.0-126.0	
Tetrachloroethene	53.4683			50.00		106.9		74.0-132.0	
Chlorobenzene	54.4971			50.0		109.0		83.0-123.0	

EB1	Extraction Blank 1		3180		09/11/2000	2129
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Vinyl chloride	0	U							
1,1-Dichloroethene	0	U							
2-Butanone (Methyl ethyl ketone)	0	U							
Chloroform	0	U							
Carbon tetrachloride	0	U							
Benzene	0	U							
1,2-Dichloroethane	0	U							
Trichloroethene	0	U							
Tetrachloroethene	0	U							
Chlorobenzene	0	U							

MS	Matrix Spike	V00I11DSA	200378-1		09/11/2000	2259
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Vinyl chloride	50.6133			50.00	0	101.2		51-138	
1,1-Dichloroethene	56.2899			50.00	0	112.6		53-136	
2-Butanone (Methyl ethyl ketone)	67.4733			50.00	0	134.9		38-132	*
Chloroform	58.9234			50.00	0	117.8		71-132	
Carbon tetrachloride	56.1620			50.00	0	112.3		69-133	
Benzene	50.2587			50.00	0	100.5		71-122	
1,2-Dichloroethane	56.9951			50.00	0	114.0		70-128	
Trichloroethene	50.4545			50.00	0	100.9		78-126	
Tetrachloroethene	54.3751			50.00	0	108.8		74-132	
Chlorobenzene	55.1112			50.0	0	110.2		83-123	

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

Test Method.....: % Solids
 Method Description.: % Solids Determination
 Parameter.....: % Solids

Batch.....: 3170
 Units.....: %

Analyst...: lmr
 Test Code.: %SOLID

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MD	200375-1		92.0				92.0	0.0	20.0		09/12/2000	0000
MB			0.0								09/12/2000	0000

Test Method.....: 9038M
 Method Description.: Sulfate, Turbimetric
 Parameter.....: Sulfate

Batch.....: 3283
 Units.....: mg/L

Analyst...: jem
 Test Code.: SO4

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICV	I99KSTSA2		19.28			20.000000		96.4	90-110		09/14/2000	0915
ICB			0.37	U							09/14/2000	0923
MB			0.37	U							09/14/2000	0931
LCS	I99KSTSA2		18.69			20.000000		93.5	80-120		09/14/2000	0938
CCV	I99KSTSA2		18.33			20.000000		91.7	90-110		09/14/2000	0946
CCB			0.49	U							09/14/2000	0954
MD	200370-1		3.23				3.23	0.00	5.00		09/14/2000	1009
CCV	I99KSTSA2		19.52			20.000000		97.6	90-110		09/14/2000	1017
CCB			0.37	U							09/14/2000	1025
MS	200370-1	I99KSTSA2	19.52			20.000000	3.23	97.6	75-125		09/14/2000	1032
MSD	200370-1	I99KSTSA2	18.57		19.52	20.000000	3.23	92.8	75-125		09/14/2000	1040
								5.0	20.0			
CCV	I99KSTSA2		19.40			20.000000		97.0	90-110		09/14/2000	1103
CCB			0.73	U							09/14/2000	1111
CCV	I99KSTSA2		19.28			20.000000		96.4	90-110		09/14/2000	1142
CCB			0.37	U							09/14/2000	1150

Test Method.....: 7.3.3.2/9014
 Method Description.: Reactivity, Cyanide
 Parameter.....: Reactivity, Cyanide

Batch.....: 3128
 Units.....: mg/L

Analyst...: nvc
 Test Code.: REACCN

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICV	I00GSTCN2		0.0963			0.100000		96.3	90-110		09/11/2000	1519
ICB			-0.0006	U							09/11/2000	1520
MB			-0.0002	U							09/11/2000	1520
LCS	I00GSTCN2		0.1050			0.200000		52.5	0.0-66.0		09/11/2000	1521
MS	200378-3	I00GSTCN2	0.0569	U		0.200000	-0.0004	28.4	0-66		09/11/2000	1523
MSD	200378-3	I00GSTCN2	0.0239	U	0.0569	0.200000	-0.0004	11.9	0-66		09/11/2000	1524
								81.7	127.0			
CCV	I00GSTCN2		0.1902			0.200000		95.1	90-110		09/11/2000	1524
CCB			-0.0005	U							09/11/2000	1525

QUALITY CONTROL RESULTS

Job Number.: 200378

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: Riverdale Chemical

ATTN: Rae Mindock

Test Method.....: 7.3.4.2/9034
 Method Description.: Reactivity, Sulfide
 Parameter.....: Reactivity, Sulfide

Batch.....: 3197
 Units.....: mg/L

Analyst...: jem
 Test Code.: REACS

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MB			0.064	U							09/13/2000	0900
LCS		I00CSTSF1	14.200			15.850000		89.6	0.0-200.0		09/13/2000	0917
MS 200378-1		I00CSTSF1	7.727	U		15.850000	0.766	48.8	0-200		09/13/2000	0950
MSD 200378-1		I00CSTSF1	72.650	U	7.727	15.850000	0.766	458.4	0-200		09/13/2000	1007
								161.5	200.0			

Test Method.....: 9045C
 Method Description.: pH (Soil)
 Parameter.....: pH

Batch.....: 3186
 Units.....: pH Units

Analyst...: alh
 Test Code.: PH

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICV		I991ST3106	10.08			10.0		100.8	90-110		09/12/2000	1120
LCS		I00BST3208	6.97			7.0		99.6	80-120		09/12/2000	1122
LCD		I00BST3208	6.96			7.0	6.97	0.01	80-120		09/12/2000	1123
MD 200378-1			7.66				7.64	0.02	20.0		09/12/2000	1127
CCV		I991ST3106	10.08			10.0		100.8	90-110		09/12/2000	1135

Test Method.....: 9066
 Method Description.: Phenolics, Total Recoverable
 Parameter.....: Phenolics, Total Recoverable

Batch.....: 3244
 Units.....: mg/L

Analyst...: kd
 Test Code.: PHENTR

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICB			0.0003	U							09/13/2000	1432
ICV		I99KSTPE1	0.0995			0.100000		99.5	90-110		09/13/2000	1432
LCS		I99KSTPE1	0.0926			0.100000		92.6	80-120		09/13/2000	1433
MB			-0.0011	U							09/13/2000	1433
MS 200378-1		I99KSTPE1	10.6230			0.100000	2.0230	96.4	75-125		09/13/2000	1434
MSD 200378-1		I99KSTPE1	10.0630		10.6230	0.100000	2.0230	84.3			09/13/2000	1435
								5.4	20.0			
CCV		I99KSTPE1	0.1003			0.100000		100.3	90-110		09/13/2000	1436
CCB			0.0004	U							09/13/2000	1437

SURROGATE RECOVERIES REPORT

Job Number.: 200378

Report Date.: 09/15/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Method.....: Volatile Organics (5mL Purge)
Method Code....: 8260.5Batch.....: 3181
Analyst.....: jab

Surrogate	Units
1,2-Dichloroethane-d4 (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3180	TCLP	MB	1.00000	43.5680	50.00	87.1	66.0-132.		09/11/2000	1933
3180	TCLP	LCS	1.00000	48.5969	50.00	97.2	66.0-132.		09/11/2000	2025
3180	TCLP	EB1	1.00000	41.3392	50.00	82.7	66.0-132.		09/11/2000	2129
200378-1	TCLP		1.00000	45.6078	50.00	91.2	66.0-132.		09/11/2000	2214
200378-1	TCLP	MS	1.00000	47.2460	50.00	94.5	66.0-132.		09/11/2000	2259
200378-2	TCLP		1.00000	45.5296	50.00	91.1	66.0-132.		09/11/2000	2347
200378-3	TCLP		1.00000	47.4304	50.00	94.9	66.0-132.		09/12/2000	0030

Surrogate	Units
4-Bromofluorobenzene (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3180	TCLP	MB	1.00000	50.5171	50.00	101.0	79.0-122.		09/11/2000	1933
3180	TCLP	LCS	1.00000	53.0965	50.00	106.2	79.0-122.		09/11/2000	2025
3180	TCLP	EB1	1.00000	48.1712	50.00	96.3	79.0-122.		09/11/2000	2129
200378-1	TCLP		1.00000	52.0424	50.00	104.1	79.0-122.		09/11/2000	2214
200378-1	TCLP	MS	1.00000	51.4310	50.00	102.9	79.0-122.		09/11/2000	2259
200378-2	TCLP		1.00000	51.8492	50.00	103.7	79.0-122.		09/11/2000	2347
200378-3	TCLP		1.00000	53.2695	50.00	106.5	79.0-122.		09/12/2000	0030

Surrogate	Units
Dibromofluoromethane (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3180	TCLP	MB	1.00000	48.3782	50.00	96.8	66.0-132.		09/11/2000	1933
3180	TCLP	LCS	1.00000	51.7449	50.00	103.5	66.0-132.		09/11/2000	2025
3180	TCLP	EB1	1.00000	46.6128	50.00	93.2	66.0-132.		09/11/2000	2129
200378-1	TCLP		1.00000	50.4671	50.00	100.9	66.0-132.		09/11/2000	2214
200378-1	TCLP	MS	1.00000	49.0330	50.00	98.1	66.0-132.		09/11/2000	2259
200378-2	TCLP		1.00000	51.1208	50.00	102.2	66.0-132.		09/11/2000	2347
200378-3	TCLP		1.00000	51.3861	50.00	102.8	66.0-132.		09/12/2000	0030

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 200378

Report Date.: 09/15/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Surrogate	Units
Toluene-d8 (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3180	TCLP	MB	1.00000	48.9050	50.00	97.8	78.0-128.		09/11/2000	1933
3180	TCLP	LCS	1.00000	49.7587	50.00	99.5	78.0-128.		09/11/2000	2025
3180	TCLP	EB1	1.00000	47.0687	50.00	94.1	78.0-128.		09/11/2000	2129
200378-1	TCLP		1.00000	51.1893	50.00	102.4	78.0-128.		09/11/2000	2214
200378-1	TCLP	MS	1.00000	48.3750	50.00	96.8	78.0-128.		09/11/2000	2259
200378-2	TCLP		1.00000	50.1573	50.00	100.3	78.0-128.		09/11/2000	2347
200378-3	TCLP		1.00000	51.1523	50.00	102.3	78.0-128.		09/12/2000	0030

Method.....: Semivolatile Organics
Method Code.....: 8270Batch.....: 3234
Analyst.....: da

Surrogate	Units
2,4,6-Tribromophenol (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	TCLP	MB	1.00000	35.9111	75.0	47.9	29.0-126.		09/13/2000	0949
	TCLP	LCS	1.00000	11.0988	75.0	14.8	29.0-126.	*	09/13/2000	1018
	TCLP	EB1	1.00000	32.8255	75.0	43.8	29.0-126.		09/13/2000	1048
200378-1	TCLP		1.00000	40.1914	75.0	53.6	29.0-126.		09/13/2000	1117
200378-2	TCLP		1.00000	35.5540	75.0	47.4	29.0-126.		09/13/2000	1147
200378-3	TCLP		1.00000	39.8435	75.0	53.1	29.0-126.		09/13/2000	1216
200378-3	TCLP	MS	1.00000	42.9782	75.0	57.3	29.0-126.		09/13/2000	1245

Surrogate	Units
2-Fluorobiphenyl (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	TCLP	MB	1.00000	42.0407	50.0	84.1	34.0-112.		09/13/2000	0949
	TCLP	LCS	1.00000	13.8848	50.0	27.8	34.0-112.	*	09/13/2000	1018
	TCLP	EB1	1.00000	37.9522	50.0	75.9	34.0-112.		09/13/2000	1048
200378-1	TCLP		1.00000	40.5059	50.0	81.0	34.0-112.		09/13/2000	1117
200378-2	TCLP		1.00000	37.5126	50.0	75.0	34.0-112.		09/13/2000	1147
200378-3	TCLP		1.00000	41.6698	50.0	83.3	34.0-112.		09/13/2000	1216
200378-3	TCLP	MS	1.00000	44.1101	50.0	88.2	34.0-112.		09/13/2000	1245

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 200378

Report Date.: 09/15/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Surrogate	Units
2-Fluorophenol (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	TCLP	MB	1.00000	23.2093	75.0	30.9	21.0-97.0		09/13/2000	0949
	TCLP	LCS	1.00000	7.20320	75.0	9.6	21.0-97.0	*	09/13/2000	1018
	TCLP	EB1	1.00000	18.2906	75.0	24.4	21.0-97.0		09/13/2000	1048
200378-1	TCLP		1.00000	20.2327	75.0	27.0	21.0-97.0		09/13/2000	1117
200378-2	TCLP		1.00000	20.5698	75.0	27.4	21.0-97.0		09/13/2000	1147
200378-3	TCLP		1.00000	21.6204	75.0	28.8	21.0-97.0		09/13/2000	1216
200378-3	TCLP	MS	1.00000	20.8886	75.0	27.9	21.0-97.0		09/13/2000	1245

Surrogate	Units
Nitrobenzene-d5 (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	TCLP	MB	1.00000	45.1585	50.0	90.3	38.0-113.		09/13/2000	0949
	TCLP	LCS	1.00000	14.4174	50.0	28.8	38.0-113.	*	09/13/2000	1018
	TCLP	EB1	1.00000	38.3879	50.0	76.8	38.0-113.		09/13/2000	1048
200378-1	TCLP		1.00000	42.8372	50.0	85.7	38.0-113.		09/13/2000	1117
200378-2	TCLP		1.00000	43.7649	50.0	87.5	38.0-113.		09/13/2000	1147
200378-3	TCLP		1.00000	45.2369	50.0	90.5	38.0-113.		09/13/2000	1216
200378-3	TCLP	MS	1.00000	42.7941	50.0	85.6	38.0-113.		09/13/2000	1245

Surrogate	Units
Phenol-d5 (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	TCLP	MB	1.00000	17.5865	75.0	23.4	18.0-97.0		09/13/2000	0949
	TCLP	LCS	1.00000	5.26094	75.0	7.0	18.0-97.0	*	09/13/2000	1018
	TCLP	EB1	1.00000	14.6651	75.0	19.6	18.0-97.0		09/13/2000	1048
200378-1	TCLP		1.00000	15.6517	75.0	20.9	18.0-97.0		09/13/2000	1117
200378-2	TCLP		1.00000	16.4785	75.0	22.0	18.0-97.0		09/13/2000	1147
200378-3	TCLP		1.00000	16.8849	75.0	22.5	18.0-97.0		09/13/2000	1216
200378-3	TCLP	MS	1.00000	15.0078	75.0	20.0	18.0-97.0		09/13/2000	1245

Surrogate	Units
Terphenyl-d14 (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
	TCLP	MB	1.00000	56.9050	50.0	113.8	10.0-119.		09/13/2000	0949
	TCLP	LCS	1.00000	15.4836	50.0	31.0	10.0-119.		09/13/2000	1018
	TCLP	EB1	1.00000	55.0990	50.0	110.2	10.0-119.		09/13/2000	1048
200378-1	TCLP		1.00000	47.6014	50.0	95.2	10.0-119.		09/13/2000	1117

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 200378

Report Date.: 09/15/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Surrogate	Units
Terphenyl-d14 (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
200378-2	TCLP		1.00000	45.8178	50.0	91.6	10.0-119.		09/13/2000	1147
200378-3	TCLP		1.00000	44.2957	50.0	88.6	10.0-119.		09/13/2000	1216
200378-3	TCLP	MS	1.00000	49.1497	50.0	98.3	10.0-119.		09/13/2000	1245

Method.....: Organochlorine Pesticide Analysis
 Method Code.....: 8081

Batch.....: 3287
 Analyst.....: lsm

Surrogate	Units
Decachlorobiphenyl (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3201	TCLP	MB		0.019	0.04014	47.4	10.0-117.		09/13/2000	1806
3201	TCLP	LCS		0.018	0.04014	44.9	10.0-117.		09/13/2000	1840
3201	TCLP	LCS		0.024	0.04014	59.9	10.0-117.		09/13/2000	1913
3201	TCLP	EB1		0.038	0.04014	94.8	10.0-117.		09/13/2000	1946
200378-1	TCLP			0.039	0.04014	97.3	10.0-117.		09/13/2000	2020
200378-1	TCLP	MS		0.040	0.04014	99.8	10.0-117.		09/13/2000	2053
200378-1	TCLP	MS		0.038	0.04014	94.8	10.0-117.		09/13/2000	2127
200378-2	TCLP			0.039	0.04014	97.3	10.0-117.		09/13/2000	2200
200378-3	TCLP			0.039	0.04014	97.3	10.0-117.		09/13/2000	2233

Surrogate	Units
Tetrachloro-m-xylene (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3201	TCLP	MB		0.027	0.04012	67.3	15.0-130.		09/13/2000	1806
3201	TCLP	LCS		0.025	0.04012	62.3	15.0-130.		09/13/2000	1840
3201	TCLP	LCS		0.030	0.04012	74.8	15.0-130.		09/13/2000	1913
3201	TCLP	EB1		0.030	0.04012	74.8	15.0-130.		09/13/2000	1946
200378-1	TCLP			0.021	0.04012	52.4	15.0-130.		09/13/2000	2020
200378-1	TCLP	MS		0.027	0.04012	67.3	15.0-130.		09/13/2000	2053
200378-1	TCLP	MS		0.026	0.04012	64.8	15.0-130.		09/13/2000	2127
200378-2	TCLP			0.030	0.04012	74.8	15.0-130.		09/13/2000	2200
200378-3	TCLP			0.024	0.04012	59.9	15.0-130.		09/13/2000	2233

S U R R O G A T E R E C O V E R I E S R E P O R T

Job Number.: 200378

Report Date.: 09/15/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Method.....: Herbicides
Method Code....: 8151Batch.....: 3314
Analyst.....: lsm

Surrogate	Units
DCAA (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3211	TCLP	MB	10	0.4348	5.0142	86.8	41.0-146.		09/14/2000	0339
3211	TCLP	LCS	10	0.3078	5.0142	61.4	41.0-146.		09/14/2000	0411
3211	TCLP	EB1	10	0.2920	5.0142	58.3	41.0-146.		09/14/2000	0443
200378-1	TCLP		10	0.4262	5.0142	85.1	41.0-146.		09/14/2000	0515
200378-2	TCLP		10	0.4340	5.0142	86.6	41.0-146.		09/14/2000	0547
200378-2	TCLP	MS	10	0.3186	5.0142	63.6	41.0-146.		09/14/2000	0619
200378-3	TCLP		10	0.2749	5.0142	54.9	41.0-146.		09/14/2000	0651

LABORATORY CHRONICLE

Job Number: 200378

Date: 09/15/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Lab ID: 200378-1 Client ID: DSL 3		Date Recvd: 09/08/2000	Sample	Date: 09/06/2000		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP #	DATE/TIME ANALYZED	DILUTION
% Solids	% Solids Determination	1	3170		09/12/2000 0000	
5030 TCLP/SPLP	5030CP TCLP/SPLP Prep	1	3180		09/11/2000 2214	
3010A	Acid Dig. Leachates (ICAP)	1	3127		09/11/2000 1520	
8150B	Extraction 8150B(Herbicides TCLP)	1	3211		09/11/2000 0000	
3510C	Extraction for TCLP (Chlor.Pest)	1	3201		09/11/2000 0000	
3510C	Extraction for TCLP (SVOC)	1	3208		09/11/2000 0000	
8151A	Herbicides	1	3314	3211	09/14/2000 0515	10
1010	Ignitability (Pensky-Martens Closed-Cup)	1	3144		09/11/2000 1200	
7470A	Leachable, Mercury (CVAA)	1	3231	3224	09/13/2000 1448	
6010B	Leachable, Metals Analysis (ICAP)	1	3153	3127	09/12/2000 0952	
8081A	Organochlorine Pesticide Analysis	1	3287	3201	09/13/2000 2020	
9095A	Paint Filter Test	1	3145		09/11/2000 1330	
9066	Phenolics, Total Recoverable	1	3244		09/13/2000 1434	
7.3.3.2/9014	Reactivity, Cyanide	1	3128		09/11/2000 1521	
7.3.4.2/9034	Reactivity, Sulfide	1	3197		09/13/2000 0933	
7470	SW846 Dig. Leachates (Hg)	1	3224	3217	09/13/2000 1021	
8270C	Semivolatile Organics	1	3234		09/13/2000 1117	1.00000
9038M	Sulfate, Turbimetric	1	3283		09/14/2000 1119	5
1311	TCLP Extraction	1	3217		09/11/2000 0000	
1311	TCLP Zero Headspace Extraction	1	3221		09/11/2000 0000	
8260B	Volatile Organics (5mL Purge)	1	3181	3180	09/11/2000 2214	1.00000
9045C	pH (Soil)	1	3186		09/12/2000 1125	
Lab ID: 200378-2 Client ID: DSL 4		Date Recvd: 09/08/2000	Sample	Date: 09/06/2000		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP #	DATE/TIME ANALYZED	DILUTION
% Solids	% Solids Determination	1	3170		09/12/2000 0000	
5030 TCLP/SPLP	5030CP TCLP/SPLP Prep	1	3180		09/11/2000 2347	
3010A	Acid Dig. Leachates (ICAP)	1	3127		09/11/2000 1520	
8150B	Extraction 8150B(Herbicides TCLP)	1	3211		09/11/2000 0000	
3510C	Extraction for TCLP (Chlor.Pest)	1	3201		09/11/2000 0000	
3510C	Extraction for TCLP (SVOC)	1	3208		09/11/2000 0000	
8151A	Herbicides	1	3314	3211	09/14/2000 0547	10
1010	Ignitability (Pensky-Martens Closed-Cup)	1	3144		09/11/2000 1210	
7470A	Leachable, Mercury (CVAA)	1	3231	3224	09/13/2000 1455	
6010B	Leachable, Metals Analysis (ICAP)	1	3153	3127	09/12/2000 1004	
8081A	Organochlorine Pesticide Analysis	1	3287	3201	09/13/2000 2200	
9095A	Paint Filter Test	1	3145		09/11/2000 1340	
9066	Phenolics, Total Recoverable	1	3244		09/13/2000 1435	
7.3.3.2/9014	Reactivity, Cyanide	1	3128		09/11/2000 1522	
7.3.4.2/9034	Reactivity, Sulfide	1	3197		09/13/2000 1023	
7470	SW846 Dig. Leachates (Hg)	1	3224	3217	09/13/2000 1113	
8270C	Semivolatile Organics	1	3234		09/13/2000 1147	1.00000
9038M	Sulfate, Turbimetric	1	3283		09/14/2000 1127	10
1311	TCLP Extraction	1	3217		09/11/2000 0000	
1311	TCLP Zero Headspace Extraction	1	3221		09/11/2000 0000	
8260B	Volatile Organics (5mL Purge)	1	3181	3180	09/11/2000 2347	1.00000
9045C	pH (Soil)	1	3186		09/12/2000 1128	
Lab ID: 200378-3 Client ID: DSL 5		Date Recvd: 09/08/2000	Sample	Date: 09/08/2000		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP #	DATE/TIME ANALYZED	DILUTION
% Solids	% Solids Determination	1	3170		09/12/2000 0000	
5030 TCLP/SPLP	5030CP TCLP/SPLP Prep	1	3180		09/12/2000 0030	
3010A	Acid Dig. Leachates (ICAP)	1	3127		09/11/2000 1520	
8150B	Extraction 8150B(Herbicides TCLP)	1	3211		09/11/2000 0000	
3510C	Extraction for TCLP (Chlor.Pest)	1	3201		09/11/2000 0000	

LABORATORY CHRONICLE

Job Number: 200378

Date: 09/15/2000

CUSTOMER: RMT		PROJECT: RIVERDALE CHEMICAL			ATTN: Rae Mindock		
Lab ID: 200378-3	Client ID: DSL 5	Date Recvd:	09/08/2000	Sample Date:	09/08/2000		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP #	DATE/TIME ANALYZED	DILUTION	
3510C	Extraction for TCLP (SVOC)	1	3208		09/11/2000 0000		
8151A	Herbicides	1	3314	3211	09/14/2000 0651	10	
1010	Ignitability (Pensky-Martens Closed-Cup)	1	3144		09/11/2000 1220		
7470A	Leachable, Mercury (CVAA)	1	3231	3224	09/13/2000 1457		
6010B	Leachable, Metals Analysis (ICAP)	1	3153	3127	09/12/2000 1007		
8081A	Organochlorine Pesticide Analysis	1	3287	3201	09/13/2000 2233		
9095A	Paint Filter Test	1	3145		09/11/2000 1350		
9066	Phenolics, Total Recoverable	1	3244		09/13/2000 1436		
7.3.3.2/9014	Reactivity, Cyanide	1	3128		09/11/2000 1523		
7.3.4.2/9034	Reactivity, Sulfide	1	3197		09/13/2000 1040		
7470	SW846 Dig. Leachates (Hg)	1	3224	3217	09/13/2000 1130		
8270C	Semivolatile Organics	1	3234		09/13/2000 1216	1.00000	
9038M	Sulfate, Turbimetric	1	3283		09/14/2000 1134	2	
1311	TCLP Extraction	1	3217		09/11/2000 0000		
1311	TCLP Zero Headspace Extraction	1	3221		09/11/2000 0000		
8260B	Volatile Organics (5ML Purge)	1	3181	3180	09/12/2000 0030	1.00000	
9045C	pH (Soil)	1	3186		09/12/2000 1130		



Chicago Laboratory
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

RELINQUISHED BY <i>Mather, Lee</i>	COMPANY RMT	DATE 9/6/10x	TIME	RECEIVED BY <i>C. K.</i>	COMPANY SIL	DATE 9/8/100	TIME 1520
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air

COMPANY
RMT
COMPANY

DATE
9/6/10x

1

RECEIVED BY

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SIL
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DATE
7/8/00
DATE

TIME
1520

WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air

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4°
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4°
Rate, Cool to 4°

Date Received / /
Courier: Hand Delivered
Bill of Lading:

Glossary of LabNet Flags, Qualifiers and Abbreviations

Inorganic Qualifiers

- U Analyte was not detected at or above the reporting limit.
- < Not detected at or above the reporting limit
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B CLP: Result is less than the CRDL, but greater than or equal to the instrument detection limit.
- S Result was determined by the Method of Standard Additions.

Inorganic Flags

- ^ ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, MRL: Instrument related QC exceed the upper or lower control limits.
- H MB, EB: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- * LCS, LCD, MSD, MD, PS, PSD: Batch QC Exceeds the upper or lower control limits.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- 4 MS, MSD: The analyte present in the original sample 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial Dilution exceeds the control limits.
- W PS: Post-digestion spike was outside 85-115% control limits.
- + MSA correlation coefficient is less than 0.995.

Organic Qualifiers

- U Analyte was not detected at or above the reporting limit.
- ND Compound not detected
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- B Compound was found in the blank and the sample.
- M Manually integrated compound.
- Q Result was qualitatively confirmed, but not quantified.
- I Indicates the presence of an interference.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.

Organic Flags

- ^ MB, EB, MLE: Batch QC is greater than reporting limit.
- * LCS, LCD, CCV, MS, MSD, Surrogate, RS: Batch QC Exceeds the upper or lower control limits.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- P The lower of the two values is reported when the percent difference between the results of two GC columns is greater than 25%.
- A Concentration exceeds the instrument calibration range or below the reporting limit.

Abbreviations

Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
Contract	Contract laboratory identification code
CRA	Low Level Standard Check – GFAA; Mercury
CRI	Low Level Standard Check - ICP
Dil Fac	Dilution Factor
DL	Secondary dilution was performed
DL Fac	Detection Limit factor
DSH	Distilled Standard – High Level
DSL	Distilled Standard – Low Level
DSM	Distilled Standard – Medium Level
EB	Extraction Blank
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A
ISB	Interference Check Sample B
Job No.	The first six digits of the Sample ID which refers to a specific client, project and sample login group
LAB ID	An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) preparation blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PACK	Packed Column
PREPF	Calculation factor used by the Laboratory's Information Management System (LIMS)
PS	Post Spike
PSD	Post Spike Duplicate
RA	Re-analysis
RE	Indicates a re-extraction and analysis
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RS	Reference Standard
RT	Retention Time
RTW	Retention Time Window
Sample ID	A 9 digit number unique for each sample; the first six digits are referred as the job number.
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank

NOTES:

- ◆ One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- ◆ Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- ◆ Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.